



WORLD HEADQUARTERS
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Quality and Innovation Since 1963

Printed in Canada



SERVICE MANUAL

TYPE: YS1030

NX25P

IMPORTANT SAFETY INSTRUCTIONS





INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Read Instructions

The Owner's Manualshould be read and understood before operation of your unit. Please, save these instructions for future reference.

Packaging

Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning

When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

Service

The unit should be serviced only by qualified service personnel.

INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES

AVIS:

AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)

NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT

Veuillez Lire le Manuel

Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

Emballage

Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Attention:

Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que lappareil est fourni de la propre ventilation.

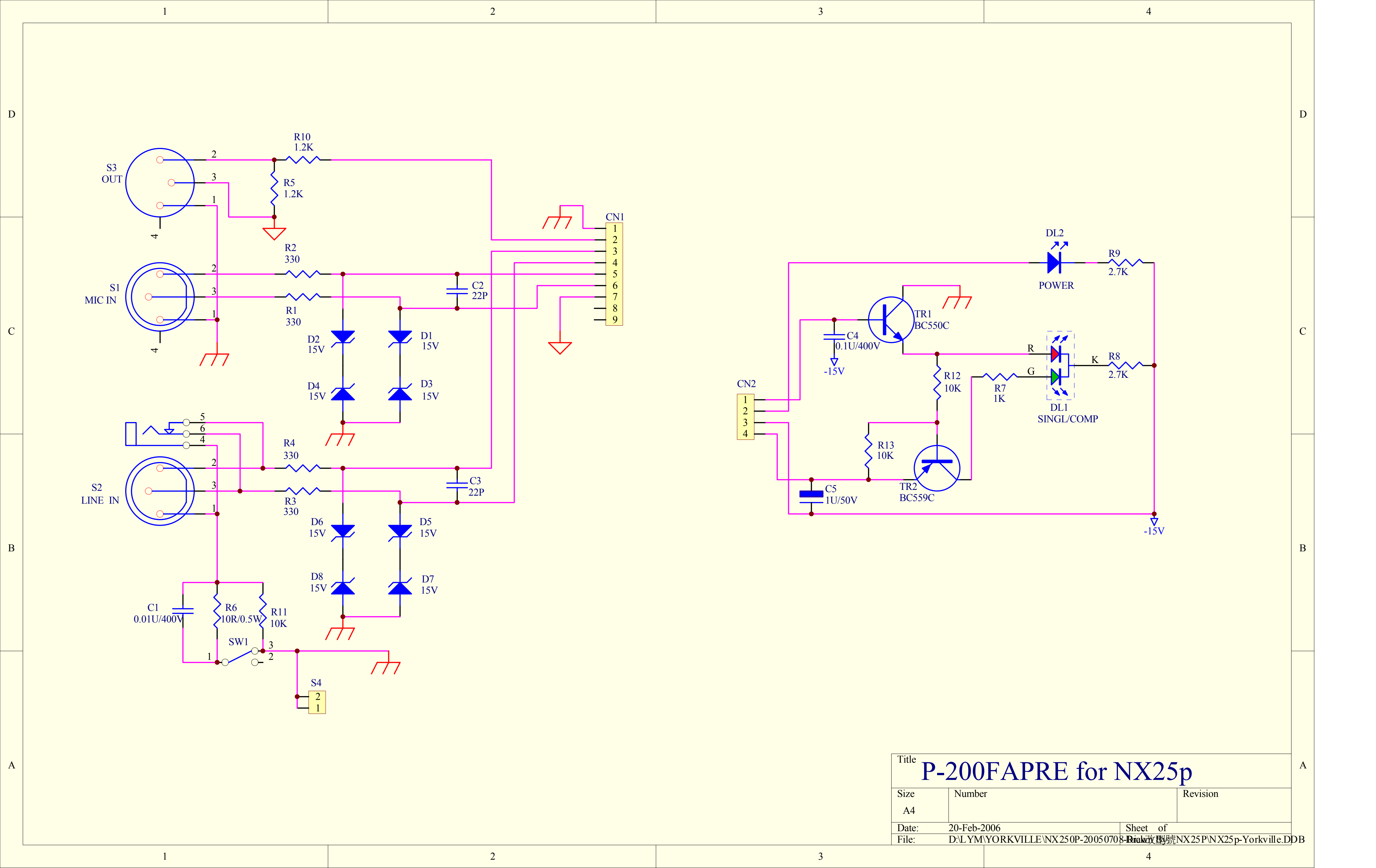
Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

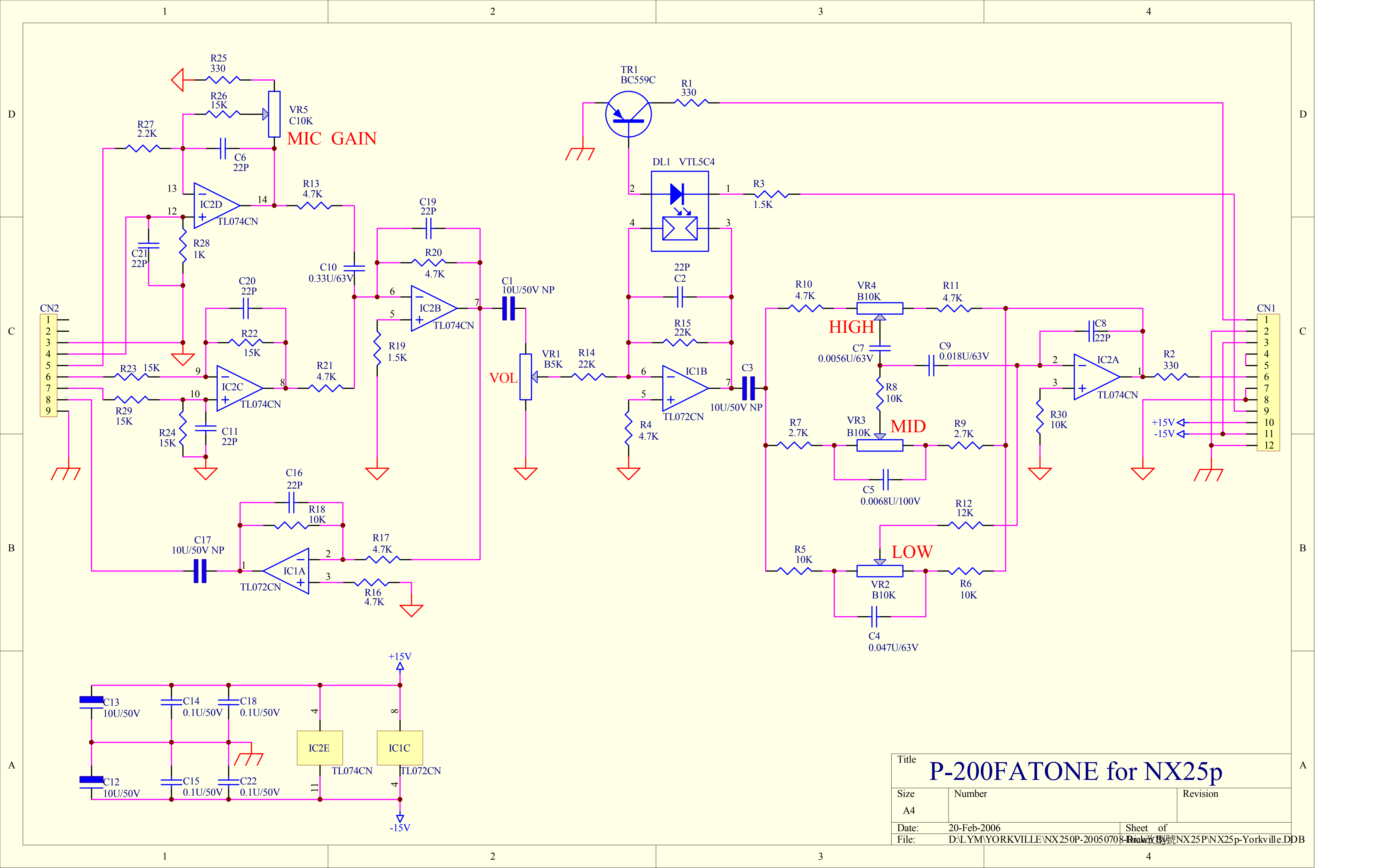
Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

Service

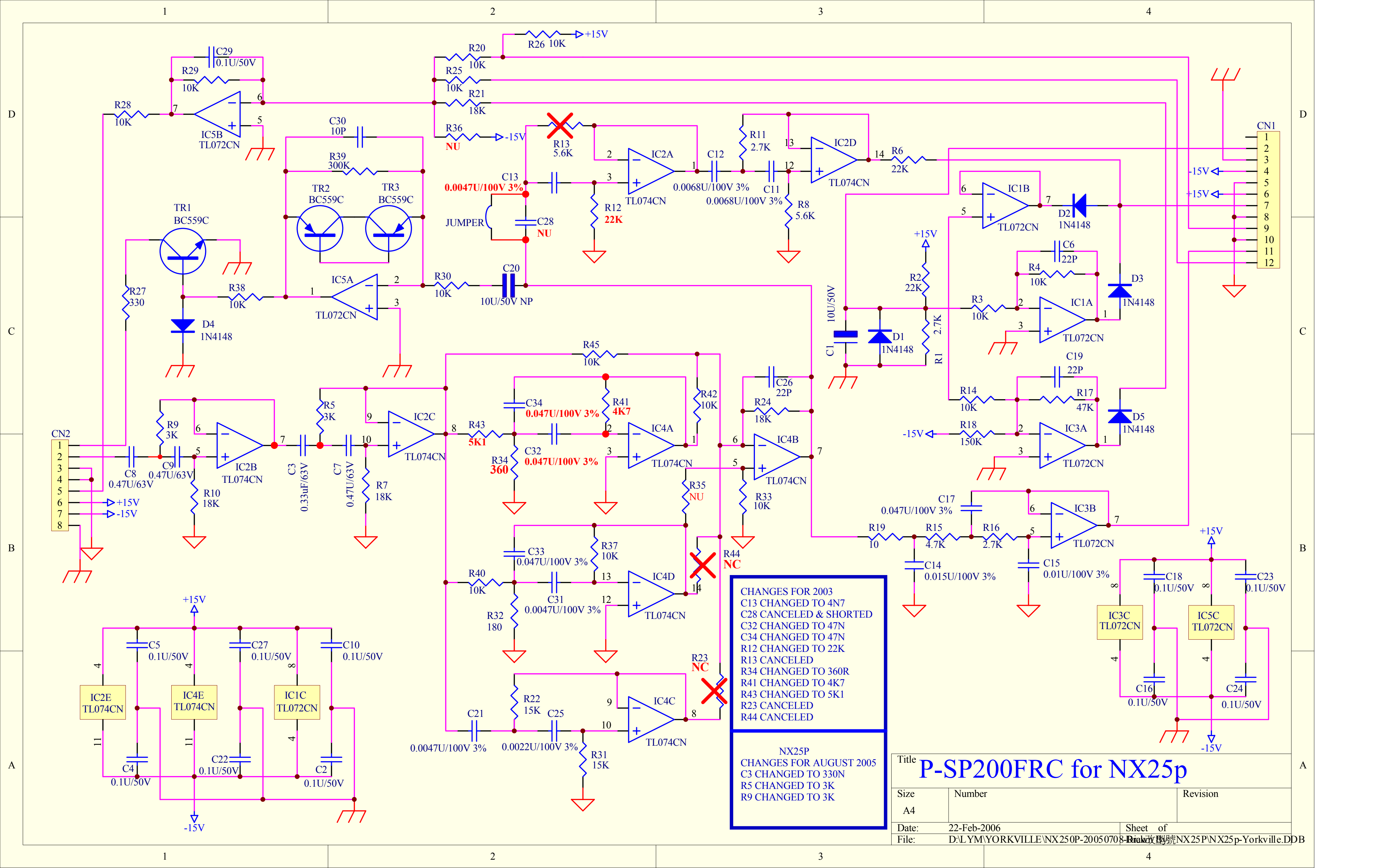
Consultez un technicien qualifié pour l'entretien de votre appareil.



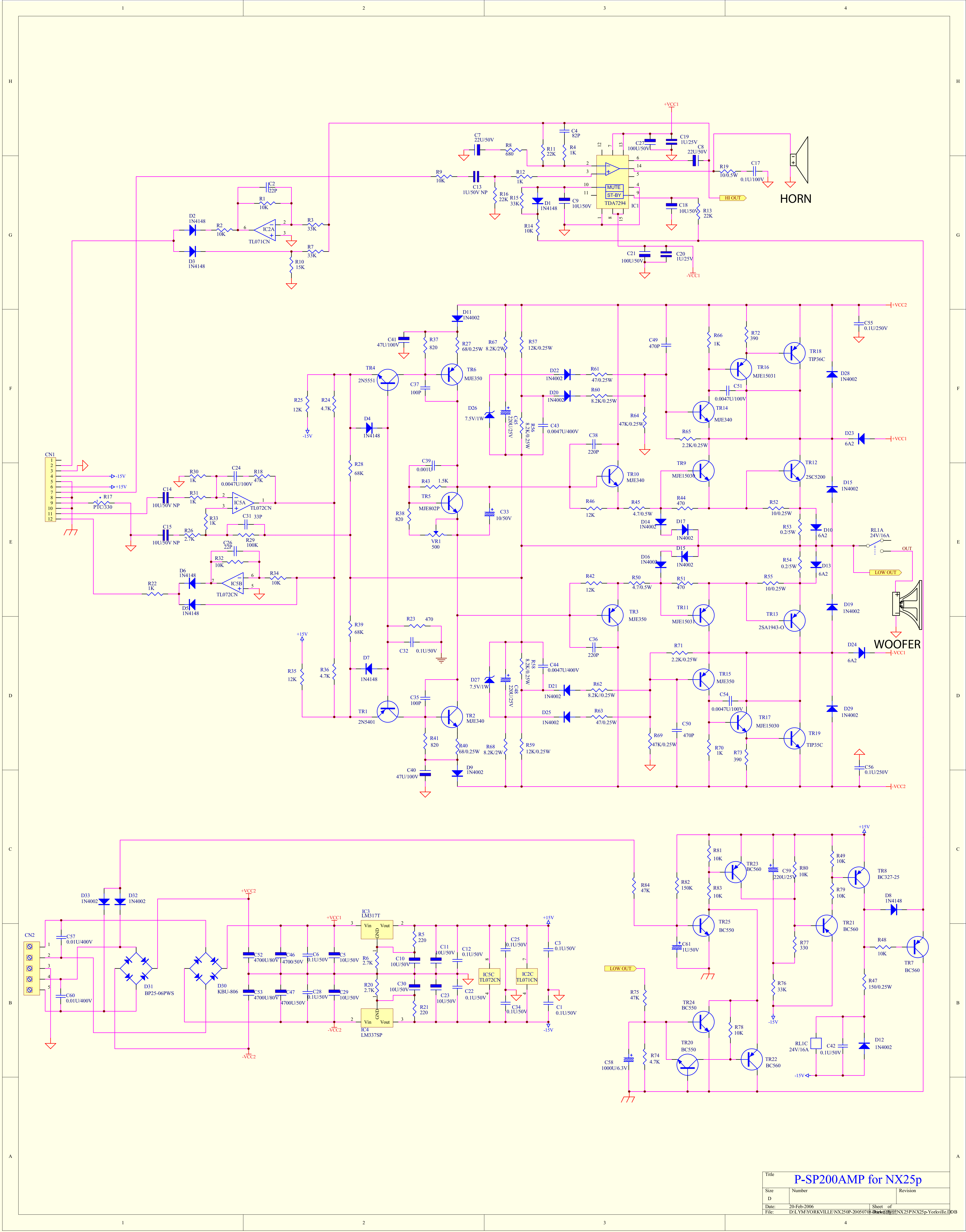
S3
OUT
R10
1.2K
R5
1.2K
S1
MIC IN
R2
330
R1
330
C2
22P
CN1
D2
15V
D1
15V
D4
15V
D3
15V
R4
330
R3
330
S2
LINE IN
C3
22P
D6
15V
D5
15V
D8
15V
D7
15V
C1
0.01U/400V
R6
10R/0.5W
R11
10K
SW1
S4
DL2
POWER
R9
2.7K
TR1
BC550C
C4
0.1U/400V
-15V
CN2
R
G
K
R8
2.7K
R12
10K
R7
1K
DL1
SINGL/COMP
R13
10K
C5
1U/50V
TR2
BC559C
-15V
Title
P-200FAPRE for NX25p
Size
A4
Number
Revision
Date:
20-Feb-2006
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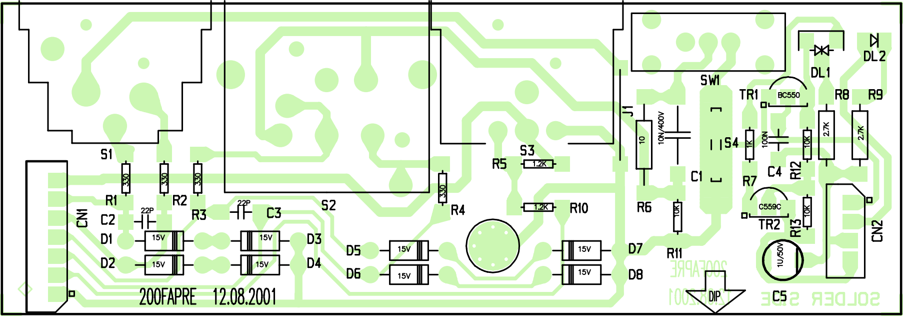
MIC GAIN
VOL
HIGH
MID
LOW
R25 330
R26 15K
VR5 C10K
R27 2.2K
C6 22P
IC2D TL074CN
R13 4.7K
C19 22P
R20 4.7K
C21 22P
R28 1K
C10 0.33U/63V
IC2B TL074CN
C1 10U/50V NP
C20 22P
R22 15K
R19 1.5K
VR1 B5K
R14 22K
R23 15K
R21 4.7K
IC2C TL074CN
R29 15K
R24 15K
C11 22P
CN2
C16 22P
R18 10K
C17 10U/50V NP
R17 4.7K
IC1A TL072CN
R16 4.7K
TR1 BC559C
R1 330
DL1 VTL5C4
R3 1.5K
22P C2
R15 22K
IC1B TL072CN
R4 4.7K
C3 10U/50V NP
R10 4.7K
VR4 B10K
R11 4.7K
C7 0.0056U/63V
C9 0.018U/63V
C8 22P
IC2A TL074CN
R2 330
R30 10K
R8 10K
R7 2.7K
VR3 B10K
R9 2.7K
C5 0.0068U/100V
R12 12K
R5 10K
VR2 B10K
R6 10K
C4 0.047U/63V
CN1
+15V
-15V
C13 10U/50V
C14 0.1U/50V
C18 0.1U/50V
C12 10U/50V
C15 0.1U/50V
C22 0.1U/50V
IC2E TL074CN
IC1C TL072CN
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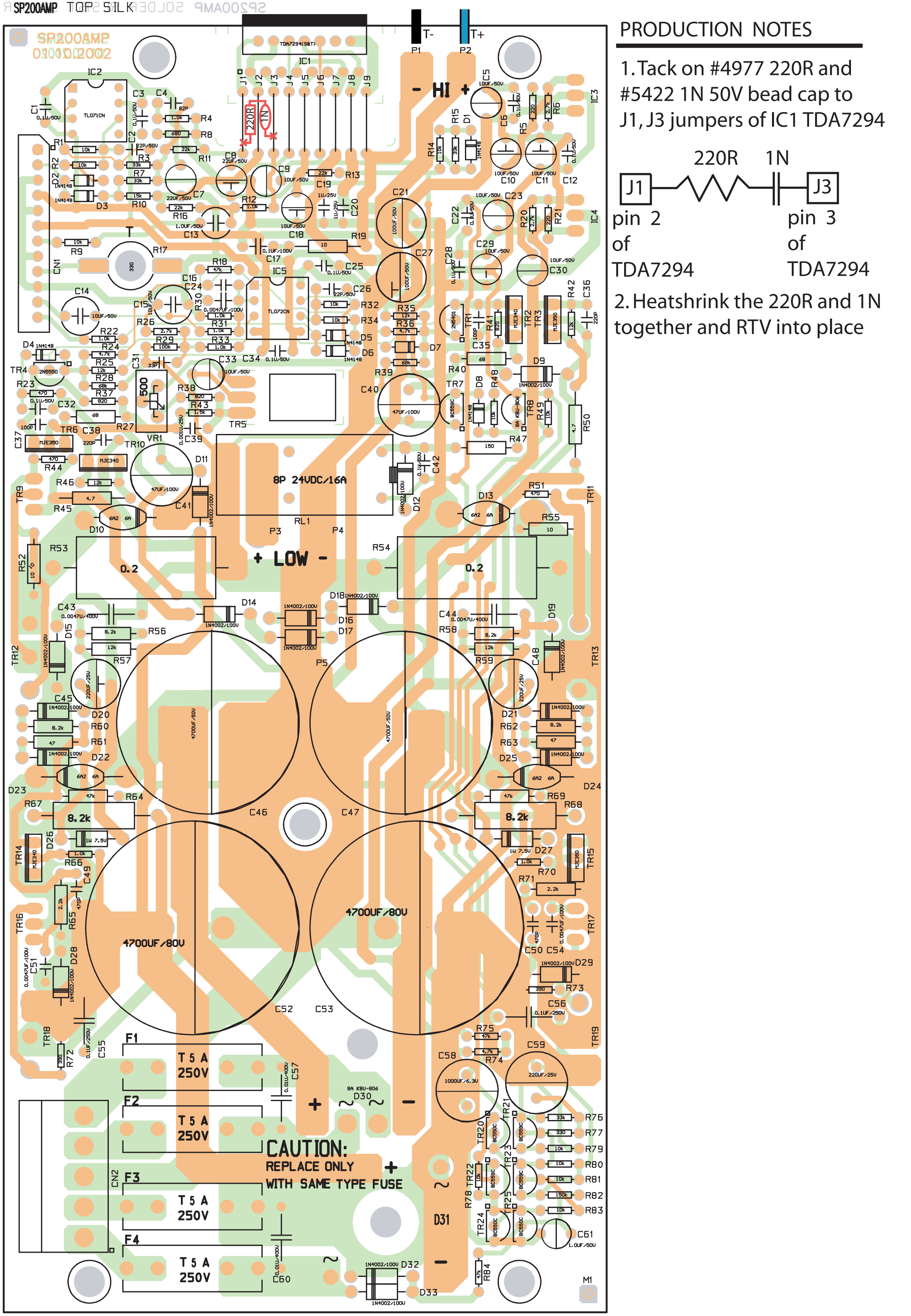


CHANGES FOR 2003
C13 CHANGED TO 4N7
C28 CANCELED & SHORTED
C32 CHANGED TO 47N
C34 CHANGED TO 47N
R12 CHANGED TO 22K
R13 CANCELED
R34 CHANGED TO 360R
R41 CHANGED TO 4K7
R43 CHANGED TO 5K1
R23 CANCELED
R44 CANCELED
NX25P
CHANGES FOR AUGUST 2005
C3 CHANGED TO 330N
R5 CHANGED TO 3K
R9 CHANGED TO 3K
Title
P-SP200FRC for NX25p
Size
A4
Number
Revision
Date: 22-Feb-2006
Sheet of
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CN1
CN2
IC5B TL072CN
IC5A TL072CN
IC2A TL074CN
IC2D TL074CN
IC2B TL074CN
IC2C TL074CN
IC4A TL074CN
IC4B TL074CN
IC4D TL074CN
IC4C TL074CN
IC1B TL072CN
IC1A TL072CN
IC3A TL072CN
IC3B TL072CN
IC2E TL074CN
IC4E TL074CN
IC1C TL072CN
IC3C TL072CN
IC5C TL072CN
TR1 BC559C
TR2 BC559C
TR3 BC559C
D1 1N4148
D2 1N4148
D3 1N4148
D4 1N4148
D5 1N4148
JUMPER
R26 10K
R20 10K
R25 10K
R21 18K
R36 NU
R29 10K
R28 10K
C29 0.1U/50V
C30 10P
R39 300K
R13 5.6K
C13 0.0047U/100V 3%
C28 NU
R12 22K
C12 0.0068U/100V 3%
C11 0.0068U/100V 3%
R11 2.7K
R8 5.6K
R6 22K
R27 330
R38 10K
R30 10K
C20 10U/50V NP
C1 10U/50V
R2 22K
R1 2.7K
R3 10K
R4 10K
C6 22P
C19 22P
R14 10K
R17 47K
R18 150K
R45 10K
R42 10K
R41 4K7
C34 0.047U/100V 3%
C32 0.047U/100V 3%
R43 5K1
R34 360
C26 22P
R24 18K
R35 NU
R33 10K
R44 NC
R5 3K
R9 3K
C8 0.47U/63V
C9 0.47U/63V
R10 18K
C3 0.33uF/63V
C7 0.47U/63V
R7 18K
C17 0.047U/100V 3%
R19 10
R15 4.7K
R16 2.7K
C14 0.015U/100V 3%
C15 0.01U/100V 3%
C33 0.047U/100V 3%
R37 10K
R40 10K
R32 180
C31 0.0047U/100V 3%
R23 NC
R22 15K
C21 0.0047U/100V 3%
C25 0.0022U/100V 3%
R31 15K
C18 0.1U/50V
C23 0.1U/50V
C16 0.1U/50V
C24 0.1U/50V
C5 0.1U/50V
C27 0.1U/50V
C10 0.1U/50V
C4 0.1U/50V
C22 0.1U/50V
C2 0.1U/50V
+15V
-15V



HORN
WOOFER
HI OUT
LOW OUT
OUT
+VCC1
-VCC1
+VCC2
-VCC2
+15V
-15V
CN1
CN2
TDA7294
IC1
MUTE
ST-BY
IC2A TL071CN
IC5A TL072CN
IC5B TL072CN
IC5C TL072CN
IC2C TL071CN
IC3 LM317T
IC4 LM337SP
Vin Vout GND
D30 KBU-806
D31 BP25-06PWS
D32 1N4002
D33 1N4002
RL1A 24V/16A
RL1C 24V/16A
R17 PTC/330
VR1 500
TR1 2N5401
TR2 MJE340
TR3 MJE350
TR4 2N5551
TR5 MJE802P
TR6 MJE350
TR7 BC560
TR8 BC327-25
TR9 MJE15030
TR10 MJE340
TR11 MJE15031
TR12 2SC5200
TR13 2SA1943-O
TR14 MJE340
TR15 MJE350
TR16 MJE15031
TR17 MJE15030
TR18 TIP36C
TR19 TIP35C
TR20 BC550
TR21 BC560
TR22 BC560
TR23 BC560
TR24 BC550
TR25 BC550
C52 4700U/80V
C53 4700U/80V
C46 4700U/50V
C47 4700U/50V
C58 1000U/6.3V
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Size
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Number
Revision
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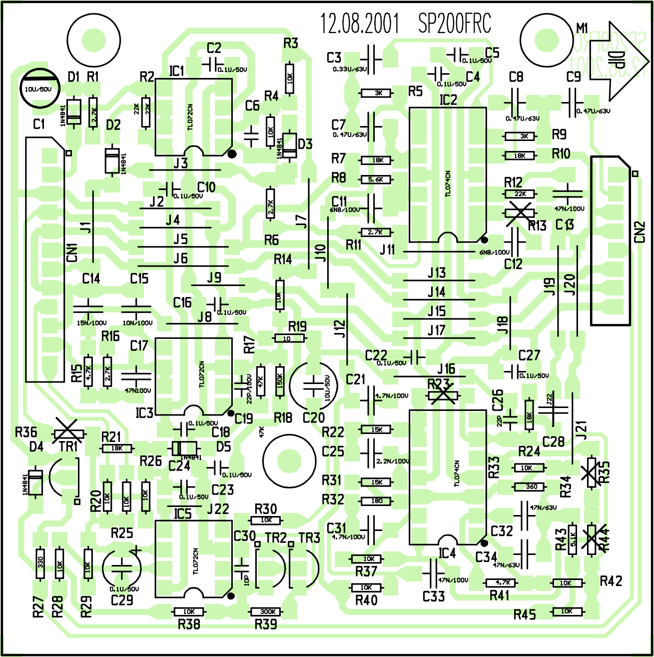

S1
R1
R2
R3
330
330
330
CN1
C2
22P
D1
D2
15V
15V
15V
15V
22P
C3
D3
D4
S2
330
R4
D5
D6
15V
15V
R5
S3
1.2K
1.2K
R10
15V
15V
D7
D8
J1
10
10N/400V
R6
10K
R11
SW1
S4
C1
TR1
BC550
1K
100N
C4
R7
10K
R12
2.7K
2.7K
R8
R9
DL1
DL2
C559C
TR2
10K
R13
1U/50V
C5
CN2
DIP
200FAPRE 12.08.2001



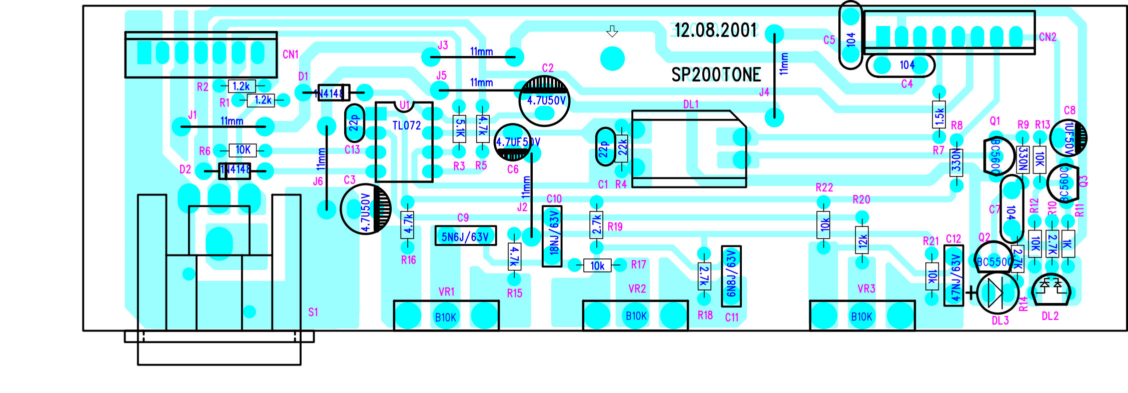
PRODUCTION NOTES

1. Tack on #4977 220R and #5422 1N 50V bead cap to J1, J3 jumpers of IC1 TDA7294

2. Heatshrink the 220R and 1N together and RTV into place



12.08.2001 SP200FRC
M1
DIP
10U/50V
C1
D1
R1
1N4841
2.2K
D2
R2
22K
IC1
TL072CN
C2
0.1U/50V
R3
10K
R4
C6
D3
C3
0.33U/63V
3K
R5
C5
0.1U/50V
C4
IC2
TL074CN
C8
C9
0.47U/63V
C7
R9
R10
18K
R7
R8
5.6K
R12
22K
R13
C13
47N/100V
C11
6N8/100V
2.7K
R6
R11
J11
6N8/100V
C12
CN1
CN2
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
C10
R14
C14
15N/100V
C15
10N/100V
C16
R16
C17
47N100V
R15
4.7K
R17
R19
10
47K
150K
22P/100V
C19
R18
C20
10U/50V
IC3
C18
J12
J13
J14
J15
J16
J17
J18
J19
J20
J21
J22
C22
C21
4.7N/100V
R23
C26
22P
C27
C28
R36
D4
TR1
R21
R26
C24
D5
C23
R20
R22
15K
C25
2.2N/100V
R31
R32
180
R24
R33
R34
R35
360
C32
47N/63V
R43
5.1K
R44
C34
IC4
IC5
R25
C29
R30
C30
10P
TR2
TR3
C31
R37
R40
C33
4.7K
R41
R42
R45
R27
330
R28
R29
R38
R39
300K



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